Appendix E Biological Database Searches





United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office 2800 Cottage Way, Room W-2605 Sacramento, California 95825



November 21, 2011

Document Number: 111121021740

Subject: Not specified

Dear: Interested party

We are sending this official species list in response to your November 21, 2011 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be February 19, 2012.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



U.S. Fish & Wildlife Service Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 111121022104

Database Last Updated: September 18, 2011

Quad Lists

Listed Species

Invertebrates Euphydryas editha bayensis Critical habitat, bay checkerspot butterfly (X) Haliotes cracherodii black abalone (E) (NMFS) Haliotes sorenseni white abalone (E) (NMFS) Icaricia icarioides missionensis mission blue butterfly (E) Speveria callippe callippe callippe silverspot butterfly (E) Speyeria zerene myrtleae Myrtle's silverspot butterfly (E) Fish Acipenser medirostris green sturgeon (T) (NMFS) Eucyclogobius newberryi tidewater goby (E) Hypomesus transpacificus delta smelt (T) Oncorhynchus kisutch coho salmon - central CA coast (E) (NMFS) Oncorhynchus mykiss Central California Coastal steelhead (T) (NMFS) Central Valley steelhead (T) (NMFS) Oncorhynchus tshawytscha Central Valley spring-run chinook salmon (T) (NMFS) winter-run chinook salmon, Sacramento River (E) (NMFS) Amphibians Rana draytonii California red-legged frog (T) Critical habitat, California red-legged frog (X) Reptiles Caretta caretta loggerhead turtle (T) (NMFS) Chelonia mydas (incl. agassizi) green turtle (T) (NMFS)

Dermochelys coriacea leatherback turtle (E) (NMFS) Lepidochelys olivacea olive (=Pacific) ridley sea turtle (T) (NMFS) Thamnophis sirtalis tetrataenia San Francisco garter snake (E) Birds Brachyramphus marmoratus marbled murrelet (T) Charadrius alexandrinus nivosus western snowy plover (T) Diomedea albatrus short-tailed albatross (E) Pelecanus occidentalis californicus California brown pelican (E) Rallus longirostris obsoletus California clapper rail (E) Sternula antillarum (=Sterna, =albifrons) browni California least tern (E) Mammals Arctocephalus townsendi Guadalupe fur seal (T) (NMFS) Balaenoptera borealis sei whale (E) (NMFS) Balaenoptera musculus blue whale (E) (NMFS) Balaenoptera physalus finback (=fin) whale (E) (NMFS) Enhydra lutris nereis southern sea otter (T) Eubalaena (=Balaena) glacialis right whale (E) (NMFS) Eumetopias jubatus Steller (=northern) sea-lion (T) (NMFS) *Physeter catodon (=macrocephalus)* sperm whale (E) (NMFS) Reithrodontomys raviventris salt marsh harvest mouse (E) Plants Lessingia germanorum San Francisco lessingia (E) **Proposed Species** Amphibians Rana draytonii Critical habitat, California red-legged frog (PX)

Quads Containing Listed, Proposed or Candidate Species:

SAN FRANCISCO SOUTH (448B)

County Lists

No county species lists requested.

Key:

- (E) Endangered Listed as being in danger of extinction.
- (T) *Threatened* Listed as likely to become endangered within the foreseeable future.
- (P) *Proposed* Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the <u>National Oceanic & Atmospheric Administration Fisheries Service</u>. Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) Proposed Critical Habitat - The species is already listed. Critical habitat is being proposed for it.

- (C) Candidate Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) Critical Habitat designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7¹/₂ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online <u>Inventory of Rare and Endangered Plants</u>.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our <u>Protocol</u> and <u>Recovery Permits</u> pages.

For plant surveys, we recommend using the <u>Guidelines for Conducting and Reporting</u> <u>Botanical Inventories</u>. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm,

pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

• If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal <u>consultation</u> with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

• If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our <u>Map Room</u> page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts.

<u>More info</u>

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be February 19, 2012.



Selected Elements by Scientific Name California Department of Fish and Game California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
Amsinckia lunaris	PDBOR01070	None	None	G2?	S2	1B.2
bent-flowered fiddleneck						
Arctostaphylos franciscana	PDERI040J3	None	None	G1	S1	1B.1
Franciscan manzanita						
Arctostaphylos imbricata	PDERI040L0	None	Endangered	G1	S1	1B.1
San Bruno Mountain manzanita						
Arctostaphylos montana ssp. ravenii	PDERI040J2	Endangered	Endangered	G3T1	S1	1B.1
Presidio manzanita						
Arctostaphylos montaraensis	PDERI042W0	None	None	G2	S2.2	1B.2
Montara manzanita						
Arctostaphylos pacifica	PDERI040Z0	None	Endangered	G1	S1	1B.2
Pacific manzanita						
Astragalus tener var. tener	PDFAB0F8R1	None	None	G2T2	S2	1B.2
alkali milk-vetch						
Banksula incredula	ILARA14100	None	None	G1	S1	
incredible harvestman						
Caecidotea tomalensis	ICMAL01220	None	None	G2	S2	
Tomales isopod						
Callophrys mossii bayensis	IILEPE2202	Endangered	None	G4T1	S1	
San Bruno elfin butterfly						
Carex comosa	PMCYP032Y0	None	None	G5	S2?	2.1
bristly sedge						
Charadrius alexandrinus nivosus	ABNNB03031	Threatened	None	G4T3	S2	SSC
western snowy plover						
Chorizanthe cuspidata var. cuspidata	PDPGN04081	None	None	G2T2	S2.2	1B.2
San Francisco Bay spineflower						
Chorizanthe robusta var. robusta	PDPGN040Q2	Endangered	None	G2T1	S1.1	1B.1
robust spineflower						
Cicindela hirticollis gravida	IICOL02101	None	None	G5T2	S1	
sandy beach tiger beetle						
Cirsium andrewsii	PDAST2E050	None	None	G2	S2.2	1B.2
Franciscan thistle						
Cirsium occidentale var. compactum compact cobwebby thistle	PDAST2E1Z1	None	None	G3G4T2	S2.1	1B.2
Collinsia multicolor	PDSCR0H0B0	None	None	G2	S2.2	1B.2
San Francisco collinsia						
Dufourea stagei	IIHYM22010	None	None	G1?	S1?	
Stage's dufourine bee						
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eucyclogobius newberryi	AFCQN04010	Endangered	None	G3	S2S3	SSC
tidewater goby						



Selected Elements by Scientific Name California Department of Fish and Game California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
Euphydryas editha bayensis	IILEPK4055	Threatened	None	G5T1	S1	
Bay checkerspot butterfly						
Fritillaria liliacea	PMLIL0V0C0	None	None	G2	S2.2	1B.2
fragrant fritillary						
Geothlypis trichas sinuosa	ABPBX1201A	None	None	G5T2	S2	SSC
saltmarsh common yellowthroat						
Gilia capitata ssp. chamissonis	PDPLM040B3	None	None	G5T2	S2.1	1B.1
blue coast gilia						
Grindelia hirsutula var. maritima	PDAST470D3	None	None	G5T2	S2.1	1B.2
San Francisco gumplant						
Helianthella castanea	PDAST4M020	None	None	G2	S2	1B.2
Diablo helianthella						
Hemizonia congesta ssp. congesta	PDAST4R065	None	None	G5T2T3	S2S3	1B.2
seaside tarplant				0.17070	0000	
Hesperevax sparsiflora var. brevifolia	PDASTE5011	None	None	G4T2T3	S2S3	1B.2
short-leaved evax		News	Nama	0.474	04.4	40.4
Horkelia cuneata ssp. sericea	PDROS0W043	None	None	G4T1	S1.1	1B.1
Kellogg's horkelia		Neze	Name	040	040	
Hydroporus leechi Leech's skyline diving beetle	IICOL55040	None	None	G1?	S1?	
	1100072010	Nana	None	G2	S2	
Ischnura gemina San Francisco forktail damselfly	IIODO72010	None	None	62	52	
Lasiurus cinereus	AMACC05030	None	None	G5	S4?	
hoary bat						
Laterallus jamaicensis coturniculus	ABNME03041	None	Threatened	G4T1	S1	FP
California black rail						
Layia carnosa	PDAST5N010	Endangered	Endangered	G2	S2.1	1B.1
beach layia						
Leptosiphon rosaceus	PDPLM09180	None	None	G1	S1.1	1B.1
rose leptosiphon						
Lessingia germanorum	PDAST5S010	Endangered	Endangered	G1	S1.1	1B.1
San Francisco lessingia						
Lichnanthe ursina	IICOL67020	None	None	G2	S2	
bumblebee scarab beetle						
Malacothamnus arcuatus	PDMAL0Q0E0	None	None	G2Q	S2.2	1B.2
arcuate bush-mallow						
Melospiza melodia pusillula	ABPBXA301S	None	None	G5T2?	S2?	SSC
Alameda song sparrow						
Mylopharodon conocephalus	AFCJB25010	None	None	G3	S3	SSC
hardhead						
Pentachaeta bellidiflora	PDAST6X030	Endangered	Endangered	G1	S1.1	1B.1
white-rayed pentachaeta						



Selected Elements by Scientific Name California Department of Fish and Game California Natural Diversity Database



Creation	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
Species Phalacrocorax auritus	ABNFD01020	None	None	GIODAI RAIIK G5	State Rank	WL
double-crested cormorant		None	None	00	00	
Plebejus icarioides missionensis	IILEPG801A	Endangered	None	G5T1	S1	
Mission blue butterfly		0				
Rallus longirostris obsoletus	ABNME05016	Endangered	Endangered	G5T1	S1	FP
California clapper rail		-	-			
Rana draytonii	AAABH01022	Threatened	None	G4T2T3	S2S3	SSC
California red-legged frog						
Riparia riparia	ABPAU08010	None	Threatened	G5	S2S3	
bank swallow						
Sanicula maritima	PDAPI1Z0D0	None	Rare	G2	S2.2	1B.1
adobe sanicle						
Silene verecunda ssp. verecunda	PDCAR0U213	None	None	G5T2	S2.2	1B.2
San Francisco campion						
Speyeria callippe callippe	IILEPJ6091	Endangered	None	G5T1	S1	
callippe silverspot butterfly						
Suaeda californica	PDCHE0P020	Endangered	None	G1	S1.1	1B.1
California seablite						
Thamnophis sirtalis tetrataenia	ARADB3613B	Endangered	Endangered	G5T2	S2	FP
San Francisco garter snake						
Trachusa gummifera	IIHYM80010	None	None	G1	S1	
A leaf-cutter bee						
Triphysaria floribunda	PDSCR2T010	None	None	G2	S2.2	1B.2
San Francisco owl's-clover						
Triquetrella californica	NBMUS7S010	None	None	G1	S1	1B.2
coastal triquetrella						
Tryonia imitator	IMGASJ7040	None	None	G2G3	S2S3	
mimic tryonia (=California brackishwater snail)						

Record Count: 56